A plan for Injury Risk Curve (IV-NIC (R)) Accident Simulation based on 20 cases

2012.6.4

WebEX Meeting
NHTSA(VRTC)/JARI

Possible BioRID IARVs

1 . VRTC/OSU to correlate IV-NIC_{rot} with BioRID test data?
2 . JARI suggests current best IARVS for BioRID

Accident Reconstruction (20 cases)

Injury Assessment Parameter:
WAD (Whiplash Associated Disorders)

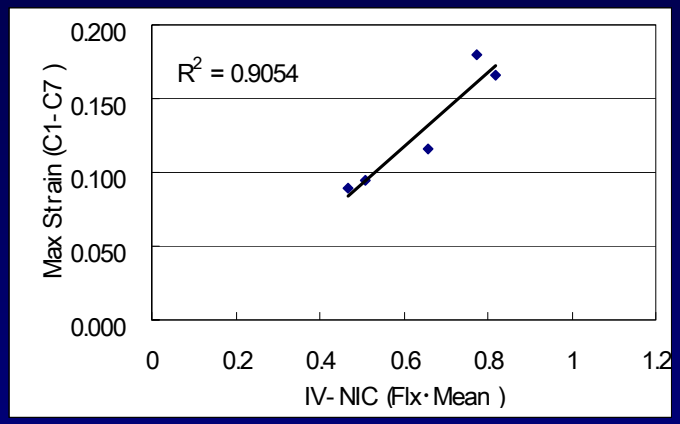
Correlation between Strain (Rate)/IV-NIC (rot) is based on WAD

New PMHS Tests

Injury Assessment Parameter:
Pathological changes such as rupture of ligaments etc. in the PMHS tests

Lower levels will be less than AIS1, as for the correlation provided by accident reconstruction simulation of Strain (Rate) and IV-NIC. The injury observed from the PMHS experiment is that WAD supposes that the injury level is equivalent to WAD2+.

Implementation



Further data (5+15) of the correlation

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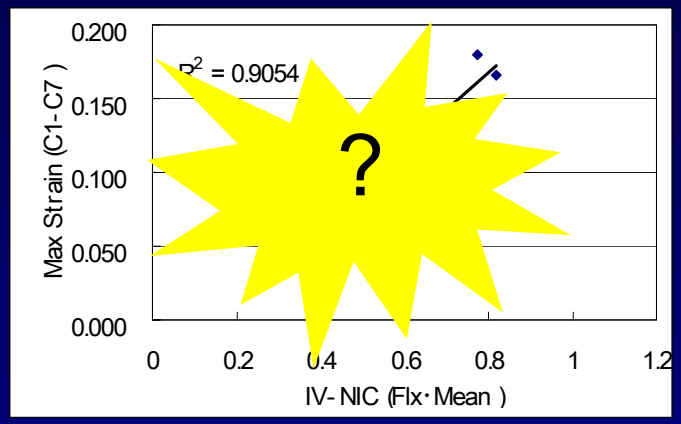
Check of coefficient correlation and establishment of injury risk curve



Implementation Plan:

1. Calculation of IV-NIC（R）：5 + 15 cases
2. Confirmation of relationship for IV-NIC (R) and Strain (Rate)
3. Establishment of injury risk curve based on 20 cases of simulation

1. Relationship between neck force/moment and IV-NIC (R)
2. Further mutual collaboration

Questions and Discussion

Rough schedule of Collaboration Works
Mutual Agreement between NHTSA and JAPAN

- Discussion with core members like B. Frost, and important experts
- Presentation to HR-gtr7 meeting (to B. Frost)

< NHTSA/Japan works >

- JARI provides all data and also an outline of the results by August
- Discussion with NHTSA based on tentative PMHS test results
- Come up with a tentative proposal by October
- Tentative output presentation to GRSP in December